Fermilab Quantum Institute
Science Seminar

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"Achieving Practical Applications of Quantum Computers"

Recently, the Google quantum computing team claimed to have achieved quantum supremacy, carrying out a well-defined task on a quantum computer that would be intractable on classical computers. The task they performed this on, however, does not have clear practical applicability. Demonstrating practical applications of quantum computers is still an open problem. I will discuss our recent efforts to achieve practical applications of quantum computers, involving development of new algorithms calculating dynamics for near-term devices, methods for understanding and mitigating inevitable errors, and the use of classical simulations and modeling to improve hardware.

Friday, February 7, 2020
2:00pm
Fermilab, Curia II, WH2SW
https://indico.fnal.gov/event/23269